

# AMENDMENTS TO THE SPECIFICATION

Please amend the specification as indicated in the following rewritten paragraphs.

Please delete paragraph [0508] and replace it with the following rewritten paragraph:

[0508] A preferred detection method is allele specific hybridization using probes overlapping the polymorphic site and having about 5, 10, 20, 25, or 30 nucleotides around the polymorphic region. Examples of probes for detecting specific allelic variants of the polymorphic region located in intron X are probes comprising a nucleotide sequence set forth in any of SEQ ID NO. X. In a preferred embodiment of the invention, several probes capable of hybridizing specifically to allelic variants are attached to a solid phase support, e.g., a "chip." Oligonucleotides can be bound to a solid support by a variety of processes, including lithography. For example a chip can hold up to 250,000 oligonucleotides (GeneChip, Affymetrix). Mutation detection analysis using these chips comprising oligonucleotides, also termed "DNA probe arrays" is described e.g., in Cronin et al., HUMAN MUTATION 7:244 (1996) and in Kozal et al., NATURE MEDICINE 2:753 (1996). In one embodiment, a chip comprises all the allelic variants of at least one polymorphic region of a gene. The solid phase support is then contacted with a test nucleic acid and hybridization to the specific probes is detected. Accordingly, the identity of numerous allelic variants of one or more genes can be identified in a simple hybridization experiment. For example, the identity of the allelic variant of the nucleotide polymorphism of nucleotide A or G at position 33 of ~~Seq ID 1~~ (baySNP179) and that of other possible polymorphic regions can be determined in a single hybridization experiment.

Please delete paragraph [0633] and replace it with the following rewritten paragraph:

**Table 2a**

**OLIGONUCLEOTIDE PRIMERS USED FOR GENOTYPING USING MASS SPECTROMETRY**

[0633] The baySNP number refers to an internal numbering of the PA SNPs. Primer sequences are listed for preamplification of the genomic fragments (primers EF and ER) and for subsequent allele specific PCR of the SNP.

baySNP	SNP	NAME	SEQUENCE	SEQ ID No:
28	C137T	CF	gggacggtcggtagatTCTAGAATTGTGCTTCCC	<u>1</u>
28	C137T	EF	TGTCCAGTGTTAGGAAAAA	<u>2</u>
28	C137T	ER	GACGATGCCTTCAGCACAGATGTGGCTTCTGTATGAG	<u>3</u>
28	C137T	TF	gctggctcggtaagaTCTAGAATTGTGCTTCCT	<u>4</u>
29	A464G	AF	gggacggtcggtagatCATCGGTCAGTGTCCCCA	<u>5</u>
29	A464G	EF	GATGTCTGTCTCCTTGATGT	<u>6</u>
29	A464G	ER	GACGATGCCTTCAGCACAATGTGGGGGTTTTATTTT	<u>7</u>
29	A464G	GF	gctggctcggtaagaCATCGGTCAGTGTCCCCG	<u>8</u>
52	C397G	CR	gggacggtcggtagatTATTTTATAATGCAAAG	<u>9</u>
52	C397G	EF	GACGATGCCTTCAGCACAGTGAATTGCCAGATTAGTG	<u>10</u>
52	C397G	ER	TCTAAAGTGCTGGGATTG	<u>11</u>
52	C397G	GR	gctggctcggtaagaTATTTTATAATGCAAAC	<u>12</u>
56	A429G	AF	gggacggtcggtagatAAGGTCTTTGTACGTGTA	<u>13</u>
56	A429G	EF	CCAGGTACTGCCTTACAAA	<u>14</u>
56	A429G	ER	GACGATGCCTTCAGCACAGCTCCCAAATAAATCACTC	<u>15</u>
56	A429G	GF	gctggctcggtaagaAAGGTCTTTGTACGTGTG	<u>16</u>
89	A159G	AR	gggacggtcggtagatTGGAGTCGGGGGAGTCAT	<u>17</u>
89	A159G	EF	GACGATGCCTTCAGCACATAGTTCAAGGGTAAAGGA	<u>18</u>
89	A159G	ER	GAGGACGAGATGTAAGAG	<u>19</u>
89	A159G	GR	gctggctcggtaagaTGGAGTCGGGGGAGTCAC	<u>20</u>
90	C154T	CF	gggacggtcggtagatCAGCGCATCCTGAACCAC	<u>21</u>
90	C154T	EF	GCTGGAACGAGTTCATCCT	<u>22</u>
90	C154T	ER	GACGATGCCTTCAGCACAGGACCCACCTTTCTTGT	<u>23</u>
90	C154T	TF	gctggctcggtaagaCAGCGCATCCTGAACCAT	<u>24</u>
99	C58T	CR	gggacggtcggtagatTCCTGCTCTTTTCTCTAG	<u>25</u>
99	C58T	EF	GACGATGCCTTCAGCACACACTGACTGCTTACTCTACC	<u>26</u>
99	C58T	ER	TACTGTGTCTCAGCTCCA	<u>27</u>

baySNP	SNP	NAME	SEQUENCE	SEQ ID No:
99	C58T	TR	gctggctcggtaagaTCCTGCTCTTTTCTCTAA	<u>28</u>
140	C468T	CR	gggacggtcggttagatGTGAATCCCAATACGAAG	<u>29</u>
140	C468T	EF	GACGATGCCTTCAGCACATAAAAAATAACCAGGTACTCCA	<u>30</u>
140	C468T	ER	GATGAGTCCTTCACCAAACATACA	<u>31</u>
140	C468T	TR	gctggctcggtaagaGTGAATCCCAATACGAAA	<u>32</u>
152	A587G	AF	gggacggtcggttagatGGTGGGAGGTTCCAGCCA	<u>33</u>
152	A587G	EF	GCAGGAAGAAAGCTAGAA	<u>34</u>
152	A587G	ER	GACGATGCCTTCAGCACAAGGCAGGATAATGACAAC	<u>35</u>
152	A587G	GF	gctggctcggtaagaGGTGGGAGGTTCCAGCCG	<u>36</u>
214	A209G	AF	gggacggtcggttagatCATTTCCACCTCACCAA	<u>37</u>
214	A209G	EF	AGGTATTCCCGGCGTTTC	<u>38</u>
214	A209G	ER	GACGATGCCTTCAGCACATGTTGTGCGTCTGCTTCC	<u>39</u>
214	A209G	GF	gctggctcggtaagaCATTTCCACCTCACCAAG	<u>40</u>
221	C339G	CF	gggacggtcggttagatTGTGAAGAACTGTTGCTC	<u>41</u>
221	C339G	EF	CTGAAGCTCATCTGCCTTCT	<u>42</u>
221	C339G	ER	GACGATGCCTTCAGCACATCCCCTTCTTCTTACCT	<u>43</u>
221	C339G	GF	gctggctcggtaagaTGTGAAGAACTGTTGCTG	<u>44</u>
224	C189T	CR	gggacggtcggttagatGCCCCTTTTCTTCATCG	<u>45</u>
224	C189T	EF	GACGATGCCTTCAGCACACTGTCTTCAAGGGCTTACAC	<u>46</u>
224	C189T	ER	TCCAACCTTCAGGCAAAAC	<u>47</u>
224	C189T	TR	gctggctcggtaagaGCCCCTTTTCTTCATCA	<u>48</u>
294	C465T	CR	gggacggtcggttagatCCCAAGGCCAACAGGGAG	<u>49</u>
294	C465T	EF	GACGATGCCTTCAGCACAGCATTCTTATGCCAGTGTTTC	<u>50</u>
294	C465T	ER	ATCCATCCCATCCTGTGT	<u>51</u>
294	C465T	TR	gctggctcggtaagaCCCAAGGCCAACAGGGAA	<u>52</u>
307	C215T	CR	gggacggtcggttagatGAGTGGGTGCTGTTCCCG	<u>53</u>
307	C215T	EF	GACGATGCCTTCAGCACAGTTACTGCCTCTCTGACC	<u>54</u>
307	C215T	ER	AGTGTGACCTGCTCTCTT	<u>55</u>
307	C215T	TR	gctggctcggtaagaGAGTGGGTGCTGTTCCCA	<u>56</u>
411	A369T	ER	gacgatgccttcagcacaAACACATTCCCCCTCTAC	<u>57</u>
411	A369T	EF	GTCTCTATTCCAAGCCAAG	<u>58</u>
411	A369T	AF	gggacggtcggttagatCCCCGCTCCAGCTCCTCA	<u>59</u>
411	A369T	TF	gctggctcggtaagaCCCCGCTCCAGCTCCTCT	<u>60</u>
449	C323G	CR	gggacggtcggttagatCCGCTTCTGCTTCTGCTG	<u>61</u>

baySNP	SNP	NAME	SEQUENCE	SEQ ID No:
449	C323G	EF	GACGATGCCTTCAGCACAAGGAGAAGAGGGAGGAGA	<u>62</u>
449	C323G	ER	GGAGCACGTAAGGAGAAA	<u>63</u>
449	C323G	GR	gctggctcggtagatCCGCTTCTGCTTCTGCTC	<u>64</u>
466	C123T	CF	gggacggtagatGGCCAGGGGCTGGAGGGC	<u>65</u>
466	C123T	EF	TCTTCAGTTCTCTCAGCTTC	<u>66</u>
466	C123T	ER	GACGATGCCTTCAGCACATCACTAGGGGCTCTTACC	<u>67</u>
466	C123T	TF	gctggctcggtagatGGCCAGGGGCTGGAGGGT	<u>68</u>
472	A497G	AR	gggacggtagatTCCTCCCGCTGCTTCAGT	<u>69</u>
472	A497G	EF	GACGATGCCTTCAGCACATCACTTACCCATCATACTTCTTTTC	<u>70</u>
472	A497G	ER	AATCCTGCCTCCACCTT	<u>71</u>
472	A497G	GR	gctggctcggtagatTCCTCCCGCTGCTTCAGC	<u>72</u>
542	A402G	AR	gggacggtagatAGAAATTCCTCCCAACT	<u>73</u>
542	A402G	EF	GACGATGCCTTCAGCACATGATTGAGCCAGTTGTTT	<u>74</u>
542	A402G	ER	GGGGTGATTTTGAGAGTG	<u>75</u>
542	A402G	GR	gctggctcggtagatAGAAATTCCTCCCAACC	<u>76</u>
739	C87G	CR	gggacggtagatGCTGGTTTGACTGGACGG	<u>77</u>
739	C87G	EF	GACGATGCCTTCAGCACAACCTTGGTATAATCCTTTCC	<u>78</u>
739	C87G	ER	AGGCAACCTAATCCACTT	<u>79</u>
739	C87G	GR	gctggctcggtagatGCTGGTTTGACTGGACGC	<u>80</u>
821	A140C	AF	gggacggtagatAGTGCTGTGATACCTGGA	<u>81</u>
821	A140C	CF	gctggctcggtagatAGTGCTGTGATACCTGGC	<u>82</u>
821	A140C	EF	ACACCCACAAAACAAGAA	<u>83</u>
821	A140C	ER	GACGATGCCTTCAGCACAGGAACAAGGACATAAAAGAG	<u>84</u>
1005	A257G	AR	gggacggtagatAGGAAATGTTAGCCCTGT	<u>85</u>
1005	A257G	EF	GACGATGCCTTCAGCACACTCCACTTCTCTATGCCTC	<u>86</u>
1005	A257G	ER	GTCCCCAGCTATGTATTGT	<u>87</u>
1005	A257G	GR	gctggctcggtagatAGGAAATGTTAGCCCTGC	<u>88</u>
1055	A287T	AF	gggacggtagatCTCAGGGAGGGAGAGAGA	<u>89</u>
1055	A287T	EF	GGGACAGACAGACAGACA	<u>90</u>
1055	A287T	ER	GACGATGCCTTCAGCACAACTCCTTCTTCAGCAC	<u>91</u>
1055	A287T	TF	gctggctcggtagatCTCAGGGAGGGAGAGAGT	<u>92</u>
1056	A354G	AR	gggacggtagatGCGGCTGCCCCGTCCTGT	<u>93</u>
1056	A354G	EF	GACGATGCCTTCAGCACAGTGTGTCTATGTGTCTGTGTG	<u>94</u>
1056	A354G	ER	CGGACTTCTCCTTCTTGT	<u>95</u>

baySNP	SNP	NAME	SEQUENCE	SEQ ID No:
1056	A354G	GR	gctggctcggtaagaGCGGCTGCCCCGTCCTGC	<u>96</u>
1085	A251G	EF	TAGGGTAAGCAGCAAGAG	<u>97</u>
1085	A251G	ER	CACAAGGCAAGAGATAACA	<u>98</u>
1085	A251G	AF	gggacggtcggtagatCAGGCAAGATAGACAGCA	<u>99</u>
1085	A251G	GF	gctggctcggtaagaCAGGCAAGATAGACAGCG	<u>100</u>
1086	A104G	EF	GTGCCCATACGAACAGAATAG	<u>101</u>
1086	A104G	ER	TGCCAAGTACCCCAAGAG	<u>102</u>
1086	A104G	AR	gggacggtcggtagatCCATTCCTCCCCAGACAT	<u>103</u>
1086	A104G	GR	gctggctcggtaagaCCATTCCTCCCCAGACAC	<u>104</u>
1092	C1687G	CF	gggacggtcggtagatCGTGCGAGCAGCGAAAGC	<u>105</u>
1092	C1687G	EF	CCAGAGAGAAGTCGAGGAAGAGA	<u>106</u>
1092	C1687G	ER	GACGATGCCTTCAGCACAGTCACCCCCAAAAGCAGG	<u>107</u>
1092	C1687G	GF	gctggctcggtaagaCGTGCGAGCAGCGAAAGG	<u>108</u>
1096	G454T	EF	GACGATGCCTTCAGCACACTTTTCCTCCTAGCCCAC	<u>109</u>
1096	G454T	ER	AAGTGATGTAACCCTCCTCTC	<u>110</u>
1096	G454T	GR	gggacggtcggtagatTCAGCTATAAATAGGGCC	<u>111</u>
1096	G454T	TR	gctggctcggtaagaTCAGCTATAAATAGGGCA	<u>112</u>
1101	C249T	CR	gggacggtcggtagatTGATGGCGGGTGCCAAGG	<u>113</u>
1101	C249T	EF	GACGATGCCTTCAGCACAGCTCTTTCCTTTGCTTCC	<u>114</u>
1101	C249T	ER	CACTGGGGGTCTCTTAC	<u>115</u>
1101	C249T	TR	gctggctcggtaagaTGATGGCGGGTGCCAAGA	<u>116</u>
1204	A307G	AR	gggacggtcggtagatCAAGGGCACTCACATTAT	<u>117</u>
1204	A307G	EF	GACGATGCCTTCAGCACAGCTCTTGCGTCTGTTTCC	<u>118</u>
1204	A307G	ER	TTTCCCTTCTGTCCCCTT	<u>119</u>
1204	A307G	GR	gctggctcggtaagaCAAGGGCACTCACATTAC	<u>120</u>
1504	C180T	CF	gggacggtcggtagatGTGACTTTTGGTTCCAC	<u>121</u>
1504	C180T	EF	AACTCGGGGTCACTGGTCT	<u>122</u>
1504	C180T	ER	GACGATGCCTTCAGCACACAGCGGGTATGGAGGATG	<u>123</u>
1504	C180T	TF	gctggctcggtaagaGTGACTTTTGGTTCCCAT	<u>124</u>
1511	G153T	EF	ACACCAGTTCTCCCTCCT	<u>125</u>
1511	G153T	ER	GACGATGCCTTCAGCACACCCACCTTTCCTAATCCT	<u>126</u>
1511	G153T	GF	gggacggtcggtagatTTGGGACTCTGCGTCAAG	<u>127</u>
1511	G153T	TF	gctggctcggtaagaTTGGGACTCTGCGTCAAT	<u>128</u>
1524	A284C	AF	gggacggtcggtagatCTCTCAAAGCCCACACAA	<u>129</u>

baySNP	SNP	NAME	SEQUENCE	SEQ ID No:
1524	A284C	CF	gctggctcggtagatCTCTCAAAGCCCACACAC	<u>130</u>
1524	A284C	EF	AGAAAAAGAAAAGGAAAAAGA	<u>131</u>
1524	A284C	ER	GACGATGCCTTCAGCACAGGAAAGTTACAAGGCTATGA	<u>132</u>
1556	C367G	CR	gggacggctcggtagatACCTGCCTCTAAGGTCTG	<u>133</u>
1556	C367G	EF	GACGATGCCTTCAGCACAAAGGAGAAGACAGTTCAAGG	<u>134</u>
1556	C367G	ER	ACAGTTGCCAGAGAAAAG	<u>135</u>
1556	C367G	GR	gctggctcggtagatACCTGCCTCTAAGGTCTC	<u>136</u>
1561	A251C	EF	TCACTTGCCTCTACTCCA	<u>137</u>
1561	A251C	ER	ATACCAGAAAGACTAAGCTCC	<u>138</u>
1561	A251C	AF	gggacggctcggtagatGGGTGAGCTCTGTGGGCA	<u>139</u>
1561	A251C	CF	gctggctcggtagatGGGTGAGCTCTGTGGGCC	<u>140</u>
1582	C389T	CR	gggacggctcggtagatCCAAGGGTTATGGCAGGG	<u>141</u>
1582	C389T	EF	GACGATGCCTTCAGCACACCTGACTATTTGGGGTTGTG	<u>142</u>
1582	C389T	ER	ATCGCTCTCTGCTTCTGCT	<u>143</u>
1582	C389T	TR	gctggctcggtagatCCAAGGGTTATGGCAGGA	<u>144</u>
1638	A443G	AR	gggacggctcggtagatCCAAAACCCCAGCGCTGT	<u>145</u>
1638	A443G	EF	GACGATGCCTTCAGCACACTCTTTATCCTGCTTATGGT	<u>146</u>
1638	A443G	ER	CCAAGCTCACTCTGTAGG	<u>147</u>
1638	A443G	GR	gctggctcggtagatCCAAAACCCCAGCGCTGC	<u>148</u>
1662	C251T	EF	AATACAATGGAAGCCAAG	<u>149</u>
1662	C251T	ER	CCTAATCGAACAGAAAAGG	<u>150</u>
1662	C251T	CF	gggacggctcggtagatCCAGTCTCCATCCACTTC	<u>151</u>
1662	C251T	TF	gctggctcggtagatCCAGTCTCCATCCACTTT	<u>152</u>
1714	A376G	AF	gggacggctcggtagatTGAACGGCATGACGGGGA	<u>153</u>
1714	A376G	EF	AAGTGTTTCTGCTGTGCCT	<u>154</u>
1714	A376G	ER	GACGATGCCTTCAGCACACAAGTCCTGGTTTTCCATC	<u>155</u>
1714	A376G	GF	gctggctcggtagatTGAACGGCATGACGGGGG	<u>156</u>
1722	C89T	CF	gggacggctcggtagatACCCCAGGATGCCCACAC	<u>157</u>
1722	C89T	EF	GTTTATCCTCCTCATGTCC	<u>158</u>
1722	C89T	ER	GACGATGCCTTCAGCACAGTTACCTTTTCCACCTCTC	<u>159</u>
1722	C89T	TF	gctggctcggtagatACCCCAGGATGCCCACAT	<u>160</u>
1757	A210G	AF	gggacggctcggtagatGGAACAAACCAAAATGA	<u>161</u>
1757	A210G	EF	CCAGCACCCAAAATAAGA	<u>162</u>
1757	A210G	ER	GACGATGCCTTCAGCACATAAGTTGAAGCCCTCCC	<u>163</u>

baySNP	SNP	NAME	SEQUENCE	SEQ ID No:
1757	A210G	GF	gctggctcggtaagaGGAAACAAACCAAAATGG	<u>164</u>
1765	A240G	AF	gggacggtcggtagatGGCTTCACGGAGGAAGAA	<u>165</u>
1765	A240G	EF	TTAGGAGCTGTGAGGTATG	<u>166</u>
1765	A240G	ER	GACGATGCCTTCAGCACATAAGATGGAGCAGGGTAG	<u>167</u>
1765	A240G	GF	gctggctcggtaagaGGCTTCACGGAGGAAGAG	<u>168</u>
1776	A200G	AF	gggacggtcggtagatAAAGGGCTCCCAACACCA	<u>169</u>
1776	A200G	EF	TGAGCACAAGATCAGAGAGG	<u>170</u>
1776	A200G	ER	GACGATGCCTTCAGCACAAAGACAGAGACGCAGGAATG	<u>171</u>
1776	A200G	GF	gctggctcggtaagaAAAGGGCTCCCAACACCG	<u>172</u>
1799	C370T	CF	gggacggtcggtagatAGGGACAACCAAAGTGAC	<u>173</u>
1799	C370T	EF	ATCATCAGAACAGCCCTAC	<u>174</u>
1799	C370T	ER	GACGATGCCTTCAGCACACAAGCCCACCTACTTACTC	<u>175</u>
1799	C370T	TF	gctggctcggtaagaAGGGACAACCAAAGTGAT	<u>176</u>
1806	A201G	AF	gggacggtcggtagatTGGGCGTCCTGGTGGGCA	<u>177</u>
1806	A201G	EF	TCTTCGGGCTAACTCTTT	<u>178</u>
1806	A201G	ER	GACGATGCCTTCAGCACACTGTCACTCCAAACCTTCT	<u>179</u>
1806	A201G	GF	gctggctcggtaagaTGGGCGTCCTGGTGGGCG	<u>180</u>
1837	C413T	CF	gggacggtcggtagatCTCAGCTTCATGCAGGGC	<u>181</u>
1837	C413T	EF	CCCACTCAGCCCTGCTCTT	<u>182</u>
1837	C413T	ER	GACGATGCCTTCAGCACAGCATCCTTGGCGGTCTTG	<u>183</u>
1837	C413T	TF	gctggctcggtaagaCTCAGCTTCATGCAGGGT	<u>184</u>
1870	C323T	CF	gggacggtcggtagatCTCCTCATTGCCTCCTTC	<u>185</u>
1870	C323T	EF	CACCTCTTTTCTCCTTCTCTT	<u>186</u>
1870	C323T	ER	GACGATGCCTTCAGCACACCCACCCCTCTATCTAC	<u>187</u>
1870	C323T	TF	gctggctcggtaagaCTCCTCATTGCCTCCTTT	<u>188</u>
1882	C115T	CR	gggacggtcggtagatGTCCCCACAAGTCCTCG	<u>189</u>
1882	C115T	EF	GACGATGCCTTCAGCACAGACCTGTACCCTTTACCC	<u>190</u>
1882	C115T	ER	TGTTTCCCTGTCTGTTTC	<u>191</u>
1882	C115T	TR	gctggctcggtaagaGTCCCCACAAGTCCTCA	<u>192</u>
1988	C214T	CF	gggacggtcggtagatGTGACTCGGTCCTATACC	<u>193</u>
1988	C214T	EF	GTGGGCTGTGATTGTGTT	<u>194</u>
1988	C214T	ER	GACGATGCCTTCAGCACATCTCGTCGTCGTAGTAGTTGT	<u>195</u>
1988	C214T	TF	gctggctcggtaagaGTGACTCGGTCCTATACT	<u>196</u>
2000	C349T	CR	gggacggtcggtagatAGTATGGTAATTAGGAAG	<u>197</u>

baySNP	SNP	NAME	SEQUENCE	SEQ ID No:
2000	C349T	EF	GACGATGCCTTCAGCACACTGACACTGAGCCACAAC	<u>198</u>
2000	C349T	ER	AACTGATGAGCAAGAAGGA	<u>199</u>
2000	C349T	TR	gctggctcggtaagaAGTATGGTAATTAGGAAA	<u>200</u>
2071	A338G	AR	gggacggtagatAAAATTGTTTCCTGTGAT	<u>201</u>
2071	A338G	EF	GACGATGCCTTCAGCACACATTGCTATTCTCAGGCTATA	<u>202</u>
2071	A338G	ER	CCCATTCTCTGCTTGACAGT	<u>203</u>
2071	A338G	GR	gctggctcggtaagaAAAATTGTTTCCTGTGAC	<u>204</u>
2078	G876T	EF	CCAGAGAGGGGATAAAGA	<u>205</u>
2078	G876T	ER	GACGATGCCTTCAGCACAGAGTGTCAAGAGGAACAGG	<u>206</u>
2078	G876T	GF	gggacggtagatTGGCTGCTGAGGTCTGAG	<u>207</u>
2078	G876T	TF	gctggctcggtaagaTGGCTGCTGAGGTCTGAT	<u>208</u>
2085	G415T	EF	GCTTTTCTTTTCATTACATC	<u>209</u>
2085	G415T	ER	GACGATGCCTTCAGCACACCTCTTTTAGAATCAGAGACA	<u>210</u>
2085	G415T	GF	gggacggtagatGGTAGTGTACCAGAAAG	<u>211</u>
2085	G415T	TF	gctggctcggtaagaGGTAGTGTACCAGAAAT	<u>212</u>
2095	A406G	AR	gggacggtagatTGTGCACCGGGATATTTT	<u>213</u>
2095	A406G	EF	GACGATGCCTTCAGCACAAATGTGTGCTTGGGTTCTT	<u>214</u>
2095	A406G	ER	GGTGTCTCTCCTCCTCTCT	<u>215</u>
2095	A406G	GR	gctggctcggtaagaTGTGCACCGGGATATTTT	<u>216</u>
2119	A67G	AR	gggacggtagatGTGGGCACCAAACGCTAT	<u>217</u>
2119	A67G	EF	GACGATGCCTTCAGCACAGATGTAGGGCTGGAAGTG	<u>218</u>
2119	A67G	ER	TCAAGAAAAATGGGAGTTG	<u>219</u>
2119	A67G	GR	gctggctcggtaagaGTGGGCACCAAACGCTAC	<u>220</u>
2141	A176G	EF	TGTAGCATCGGTAGGTTT	<u>221</u>
2141	A176G	ER	CAACATCAGACTTTCTTTTTC	<u>222</u>
2141	A176G	AR	gggacggtagatTGGTACAGGGCTAGTTTT	<u>223</u>
2141	A176G	GR	gctggctcggtaagaTGGTACAGGGCTAGTTTT	<u>224</u>
2182	A318G	AF	gggacggtagatAGGCGGGCCAAGGGTGAA	<u>225</u>
2182	A318G	EF	TTCTCTCTCCCTTCTGT	<u>226</u>
2182	A318G	ER	GACGATGCCTTCAGCACATAAATGTTCACTCTTCTTGCT	<u>227</u>
2182	A318G	GF	gctggctcggtaagaAGGCGGGCCAAGGGTGAG	<u>228</u>
2234	G296T	EF	GGGTTGTTCCAGGGCGCTATT	<u>229</u>
2234	G296T	ER	GACGATGCCTTCAGCACATGTGGAGAGGCCGGGTGC	<u>230</u>
2234	G296T	GF	gggacggtagatGAACCAGCCCCCTGGAAG	<u>231</u>



baySNP	SNP	NAME	SEQUENCE	SEQ ID No:
2234	G296T	TF	gctggctcggtaagaGAACCAGCCCCCTGGAAT	<u>232</u>
2281	A227C	AR	gggacggtcggtagatCAGGCTTGGAGACCTGGT	<u>233</u>
2281	A227C	CR	gctggctcggtaagaCAGGCTTGGAGACCTGGG	<u>234</u>
2281	A227C	EF	GACGATGCCTTCAGCACAGGGTATTCAGTTGGAAGG	<u>235</u>
2281	A227C	ER	AAGGCAAGGTTCTTAGTTG	<u>236</u>
2298	A77C	AR	gggacggtcggtagatTCTAAAAGCACTTGAAAT	<u>237</u>
2298	A77C	CR	gctggctcggtaagaTCTAAAAGCACTTGAAAG	<u>238</u>
2298	A77C	EF	GACGATGCCTTCAGCACACCTGCTAGTGTTTTCTGG	<u>239</u>
2298	A77C	ER	TGTAAGTATAGGTGGTGG	<u>240</u>
2341	C286T	CR	gggacggtcgtagatTGAAGATTCTGCTCAGCG	<u>241</u>
2341	C286T	EF	GACGATGCCTTCAGCACAAAGGGCCCGGACTCAT	<u>242</u>
2341	C286T	ER	TTTGGGGTCCTGCGGATG	<u>243</u>
2341	C286T	TR	gctggctcggtaagaTGAAGATTCTGCTCAGCA	<u>244</u>
2357	A165G	AF	gggacggtcggtagatCAAAGAAGACGAAAATGA	<u>245</u>
2357	A165G	EF	CTCAAGTTTGTTACTGATTTCTC	<u>246</u>
2357	A165G	ER	GACGATGCCTTCAGCACAGGGTTACGTCTGCTCTTC	<u>247</u>
2357	A165G	GF	gctggctcggtaagaCAAAGAAGACGAAAATGG	<u>248</u>
2366	G50T	EF	GACGATGCCTTCAGCACACTGCTCCGAAACACGGTC	<u>249</u>
2366	G50T	ER	GCATCTTCAGCCCTTCTTACTCT	<u>250</u>
2366	G50T	GR	gggacggtcggtagatCTCCTGGGCACCACGGGC	<u>251</u>
2366	G50T	TR	gctggctcggtaagaCTCCTGGGCACCACGGGA	<u>252</u>
2995	A299C	ER	gacgatgccttcagcacaTGGGATTAGACACGAGAG	<u>253</u>
2995	A299C	EF	AAAGAACTGGAAGAAGGAA	<u>254</u>
2995	A299C	AF	gggacggtcggtagatGTCACCTCCTTTCCACTA	<u>255</u>
2995	A299C	CF	gctggctcggtaagaGTCACCTCCTTTCCACTC	<u>256</u>
3360	G777T	ER	gacgatgccttcagcacaAGAAAAATGAGAGGGAAAAC	<u>257</u>
3360	G777T	EF	GATGAAGGGAAATGGAAC	<u>258</u>
3360	G777T	GF	gggacggtcggtagatCCAACCTATATAGGAGCCG	<u>259</u>
3360	G777T	TF	gctggctcggtaagaCCAACCTATATAGGAGCCT	<u>260</u>
3464	A110G	EF	CTGAACCGAGGAGATTTTT	<u>261</u>
3464	A110G	ER	TGATGCTTACAGAACTGGG	<u>262</u>
3464	A110G	AF	gggacggtcggtagatGTGTAGTGGGCAGGGTTA	<u>263</u>
3464	A110G	GF	gctggctcggtaagaGTGTAGTGGGCAGGGTTG	<u>264</u>
3975	A65C	EF	gacgatgccttcagcacaAAAAGAACCCTGGTGAAG	<u>265</u>

baySNP	SNP	NAME	SEQUENCE	SEQ ID No:
3975	A65C	ER	CCCTGATAAAAGAGATGGA	<u>266</u>
3975	A65C	AR	gggacggtcggttagatCGCATGGGAGTCAGGGAT	<u>267</u>
3975	A65C	CR	gctggctcggtcaagaCGCATGGGAGTCAGGGAG	<u>268</u>
3976	A239G	EF	gacgatgccttcagcacaATGAGGGAGCAAGACAAG	<u>269</u>
3976	A239G	ER	TGATAAAAGAGATGGAAGGAG	<u>270</u>
3976	A239G	AR	gggacggtcggttagatGTCAGTGTGTCAGTGT	<u>271</u>
3976	A239G	GR	gctggctcggtcaagaGTCAGTGTGTCAGTGC	<u>272</u>
4206	A304T	EF	gacgatgccttcagcacaCTTTTAGCCAAGTGGAG	<u>273</u>
4206	A304T	ER	GGATCTGAGGAATCTGTG	<u>274</u>
4206	A304T	AR	gggacggtcggttagatACCAGGCAGAGAGAAAAT	<u>275</u>
4206	A304T	TR	gctggctcggtcaagaACCAGGCAGAGAGAAAAA	<u>276</u>
4912	A74G	EF	CTTCACTGAGCGTCCGCAGAG	<u>277</u>
4912	A74G	ER	CCGTCGGCCCGATTCA	<u>278</u>
4912	A74G	AR	CAGGCGAGCCTCAGCCCT	<u>279</u>
4912	A74G	GR	CAGGCGAGCCTCAGCCCC	<u>280</u>
4925	A251C	EF	TCATTTCCCAATTTACCTCC	<u>281</u>
4925	A251C	ER	CCTCTTTCCCATCTCCCT	<u>282</u>
4925	A251C	AF	gggacggtcggttagatAGCCAGGAGCCTGCGTCA	<u>283</u>
4925	A251C	CF	gctggctcggtcaagaAGCCAGGAGCCTGCGTCC	<u>284</u>
4966	A251G	EF	CATTGCTCTTCTCTCTGT	<u>285</u>
4966	A251G	ER	GTGTCATCATTCCTTTCTTG	<u>286</u>
4966	A251G	AR	gggacggtcggttagatTCAGAGACATGAGTCCAT	<u>287</u>
4966	A251G	GR	gctggctcggtcaagaTCAGAGACATGAGTCCAC	<u>288</u>
5014	A2057G	ER	gacgatgccttcagcacaCACCTGTCCCACCCTATTT	<u>289</u>
5014	A2057G	EF	GTCTGAACCCCCATTCT	<u>290</u>
5014	A2057G	AF	gggacggtcggttagatGCCTGCACTGCGTTCCTA	<u>291</u>
5014	A2057G	GF	gctggctcggtcaagaGCCTGCACTGCGTTCCTG	<u>292</u>
5296	A251G	EF	GCTCCTCTGCCTTCTGCTT	<u>293</u>
5296	A251G	ER	ATTTGCCCACTGCCCTTC	<u>294</u>
5296	A251G	AF	gggacggtcggttagatTGGCTGCAGGTGCGTCCA	<u>295</u>
5296	A251G	GF	gctggctcggtcaagaTGGCTGCAGGTGCGTCCG	<u>296</u>
5298	C172T	EF	GCCACACACACCTTAACA	<u>297</u>
5298	C172T	ER	AAAGTTCTCTGCCTCCAA	<u>298</u>
5298	C172T	CF	gggacggtcggttagatAGCTCTCAGCTGGGGTGC	<u>299</u>

baySNP	SNP	NAME	SEQUENCE	SEQ ID No:
5298	C172T	TF	gctggctcggtaagaAGCTCTCAGCTGGGGTGT	<u>300</u>
5457	A134G	EF	AGCAGAATGGGCAATAGA	<u>301</u>
5457	A134G	ER	AGAGATGTGGGCAGAGAA	<u>302</u>
5457	A134G	AF	gggacggtcggtagatGGAAAGCCTACTTTCTTA	<u>303</u>
5457	A134G	GF	gctggctcggtaagaGGAAAGCCTACTTTCTTG	<u>304</u>
5704	C61T	EF	ACAGCCATAACAGGAGTG	<u>305</u>
5704	C61T	ER	GGGTTACTCAACCTAAGAGA	<u>306</u>
5704	C61T	CR	gggacggtcggtagatGTTCTCTTTGGGAAAACG	<u>307</u>
5704	C61T	TR	gctggctcggtaagaGTTCTCTTTGGGAAAACA	<u>308</u>
5717	A1960G	EF	gacgatgccttcagcacaGAACAGAAACCACAGAACC	<u>309</u>
5717	A1960G	ER	GTCCCACCCTATTTTGAG	<u>310</u>
5717	A1960G	AR	gggacggtcggtagatCACTGGCCACCTCCCTT	<u>311</u>
5717	A1960G	GR	gctggctcggtaagaCACTGGCCACCTCCCTC	<u>312</u>
5959	A71G	EF	gacgatgccttcagcacaACCATGCCTGACTTAACC	<u>313</u>
5959	A71G	ER	TTGTTTCCTGTCCTCTTTC	<u>314</u>
5959	A71G	AR	gggacggtcggtagatGTTAAGAGGCTGGGCAGT	<u>315</u>
5959	A71G	GR	gctggctcggtaagaGTTAAGAGGCTGGGCAGC	<u>316</u>
6162	C340G	EF	gacgatgccttcagcacaAGTGTTGTTAGGAGCAAAG	<u>317</u>
6162	C340G	ER	CTTAGGAACTGAGGTGG	<u>318</u>
6162	C340G	CR	gggacggtcggtagatCTGCAGCCTGGGCAACAG	<u>319</u>
6162	C340G	GR	gctggctcggtaagaCTGCAGCCTGGGCAACAC	<u>320</u>
6236	C906T	ER	gacgatgccttcagcacaTGGACACATTTGAGCTTT	<u>321</u>
6236	C906T	EF	CTTCCCCAGAGATGACTAC	<u>322</u>
6236	C906T	CF	gggacggtcggtagatCCCCATCCTACTCAGCAC	<u>323</u>
6236	C906T	TF	gctggctcggtaagaCCCCATCCTACTCAGCAT	<u>324</u>
6744	C348T	ER	gacgatgccttcagcacaGGTTACAGTGAGCCAAGA	<u>325</u>
6744	C348T	EF	AGGTGAAGAAAGCAAAATAC	<u>326</u>
6744	C348T	CF	gggacggtcggtagatTGGTGTGTGTTTTGTTTC	<u>327</u>
6744	C348T	TF	gctggctcggtaagaTGGTGTGTGTTTTGTTTT	<u>328</u>
7133	C63G	EF	TTGAGACCCTACAGAGCCA	<u>329</u>
7133	C63G	ER	GGCAAGCTGAGGTGAAAG	<u>330</u>
7133	C63G	CR	gggacggtcggtagatAATAAGGTAAGAAATGAG	<u>331</u>
7133	C63G	GR	gctggctcggtaagaAATAAGGTAAGAAATGAC	<u>332</u>
8210	A251G	EF	TAATTTCTAATGGCCTCC	<u>333</u>

baySNP	SNP	NAME	SEQUENCE	SEQ ID No:
8210	A251G	ER	TCACTTACTCCCTGATGTCT	<u>334</u>
8210	A251G	AR	gggacggtcggtagatCATTGGGTTTTCCCTCAT	<u>335</u>
8210	A251G	GR	gctggctcggtaagaCATTGGGTTTTCCCTCAC	<u>336</u>
8592	C46T	ER	gacgatgccttcagcacaACATTTAGTGCCAACATCAC	<u>337</u>
8592	C46T	EF	CTCTTCCCTGAGACACCA	<u>338</u>
8592	C46T	CF	gggacggtcggtagatGAAGGTGAAGGCCAGAGC	<u>339</u>
8592	C46T	TF	gctggctcggtaagaGAAGGTGAAGGCCAGAGT	<u>340</u>
8943	A251C	EF	GAGGCTGAGACAGAAGAA	<u>341</u>
8943	A251C	ER	GTTTGACATTAAAGAAAATGAG	<u>342</u>
8943	A251C	AR	gggacggtcggtagatGGCTGGAGTGCAGTGATT	<u>343</u>
8943	A251C	CR	gctggctcggtaagaGGCTGGAGTGCAGTGATG	<u>344</u>
9193	C88G	EF	CACGCTGTTGAGTGGG	<u>345</u>
9193	C88G	ER	CGCAGGTCTACGGTCA	<u>346</u>
9193	C88G	CR	gggacggtcggtagatCCCGGGTCTGAGGCTGCG	<u>347</u>
9193	C88G	GR	gctggctcggtaagaCCCGGGTCTGAGGCTGCC	<u>348</u>
9516	A187G	EF	CACACACACACACACAC	<u>349</u>
9516	A187G	ER	GGTCCCTTACTTTCCTCTT	<u>350</u>
9516	A187G	AR	gggacggtcggtagatCCTATCCCTACTTCCCCT	<u>351</u>
9516	A187G	GR	gctggctcggtaagaCCTATCCCTACTTCCCCC	<u>352</u>
9698	A251G	EF	GTGACCCCAAAAGAGAGA	<u>353</u>
9698	A251G	ER	CTAGCTTGTTACTGCCTCC	<u>354</u>
9698	A251G	AF	gggacggtcggtagatGGCACGACCCCGCCCCCA	<u>355</u>
9698	A251G	GF	gctggctcggtaagaGGCACGACCCCGCCCCCG	<u>356</u>
9883	A249G	EF	TCCACAACCTCAAAACCAC	<u>357</u>
9883	A249G	ER	CACAGTCCTGCAAGCTCA	<u>358</u>
9883	A249G	AR	gggacggtcggtagatCCGTGGCCGTGGCTCACT	<u>359</u>
9883	A249G	GR	gctggctcggtaagaCCGTGGCCGTGGCTCACC	<u>360</u>
10481	A107T	ER	gacgatgccttcagcacaGTTTCGGGGCTCCACTT	<u>361</u>
10481	A107T	EF	TAGCGGGACAGCGCTG	<u>362</u>
10481	A107T	AF	gggacggtcggtagatCCCGGCGCGCCTCGGAGA	<u>363</u>
10481	A107T	TF	gctggctcggtaagaCCCGGCGCGCCTCGGAGT	<u>364</u>
10542	C367T	EF	gacgatgccttcagcacaAATACACTGGGTCCTGCT	<u>365</u>
10542	C367T	ER	ATACTGCTGGCCTTTCTC	<u>366</u>
10542	C367T	CR	gggacggtcggtagatGGTCAGGGGAGCCCAGAG	<u>367</u>

baySNP	SNP	NAME	SEQUENCE	SEQ ID No:
10542	C367T	TR	gctggctcggtagaGGTCAGGGGAGCCCAGAA	<u>368</u>
10600	A251G	EF	CCTGGCAACTAACCTCTT	<u>369</u>
10600	A251G	ER	AGGCAGTCTCTGTCTACTC	<u>370</u>
10600	A251G	AR	gggacggtcggtagatATTGGCCCTGCTCAGGAT	<u>371</u>
10600	A251G	GR	gctggctcggtagaATTGGCCCTGCTCAGGAC	<u>372</u>
10621	C402T	EF	CCAGCCCTAAACCTAAA	<u>373</u>
10621	C402T	ER	AACCTCTCAAGATCAGACAC	<u>374</u>
10621	C402T	CF	gggacggtcggtagatTTAGCACTTAATAAGTAC	<u>375</u>
10621	C402T	TF	gctggctcggtagaTTAGCACTTAATAAGTAT	<u>376</u>
10745	A251G	EF	CCCCACAACAAAGAAAGA	<u>377</u>
10745	A251G	ER	GAAGCCAACCTCTCCAACA	<u>378</u>
10745	A251G	AF	gggacggtcggtagatCAAGGATTTCAAAAACCA	<u>379</u>
10745	A251G	GF	gctggctcggtagaCAAGGATTTCAAAAACCG	<u>380</u>
10771	C64G	EF	gacgatgccttcagcacaCCAGGGAAGAGCAGAACC	<u>381</u>
10771	C64G	ER	TGTACGGGAAGAGGCAGA	<u>382</u>
10771	C64G	CR	gggacggtcggtagatAGGGTGACACAGGCCACG	<u>383</u>
10771	C64G	GR	gctggctcggtagaAGGGTGACACAGGCCACC	<u>384</u>
10870	A251G	EF	ATCCCATCCCAACACACA	<u>385</u>
10870	A251G	ER	CCGAGACCAAACTCATTAC	<u>386</u>
10870	A251G	AR	gggacggtcggtagatGGCAGAGCCTGAGTCACT	<u>387</u>
10870	A251G	GR	gctggctcggtagaGGCAGAGCCTGAGTCACC	<u>388</u>
10877	A251C	EF	CCTGTTTCTCAACCTTCTC	<u>389</u>
10877	A251C	ER	ATGGTCTATGGAACCTAATCT	<u>390</u>
10877	A251C	AF	gggacggtcggtagatGCACTGATTCTGCTTCCA	<u>391</u>
10877	A251C	CF	gctggctcggtagaGCACTGATTCTGCTTCCC	<u>392</u>
10948	G140T	EF	AAGGACAGGGTCAGGAAAG	<u>393</u>
10948	G140T	ER	CAGAGGGAGGAAGGAGGT	<u>394</u>
10948	G140T	GF	gggacggtcggtagatATGGAGGAGGGTGTCTGG	<u>395</u>
10948	G140T	TF	gctggctcggtagaATGGAGGAGGGTGTCTGT	<u>396</u>
11001	C286T	EF	gacgatgccttcagcacaTTCCCAAAGACCCACA	<u>397</u>
11001	C286T	ER	CCTCCACCGCTATCAC	<u>398</u>
11001	C286T	CR	gggacggtcggtagatTGGCTGCAGGACGTCCAG	<u>399</u>
11001	C286T	TR	gctggctcggtagaTGGCTGCAGGACGTCCAA	<u>400</u>
11001	C286T	EF	TTCCCAAAGACCCACA	<u>401</u>

baySNP	SNP	NAME	SEQUENCE	SEQ ID No:
11001	C286T	ER	CCTCCACCGCTATCAC	<u>402</u>
11001	C286T	CR	gggacggtcggtagatTGGCTGCAGGACGTCCAG	<u>403</u>
11001	C286T	TR	gctggctcggtaagaTGGCTGCAGGACGTCCAA	<u>404</u>
11073	C215G	EF	CCCAACCACCCGTTCC	<u>405</u>
11073	C215G	ER	GCGCGGGAGCTAGAGA	<u>406</u>
11073	C215G	CF	gggacggtcggtagatGAAGCTGCGGGCCGGACC	<u>407</u>
11073	C215G	GF	gctggctcggtaagaGAAGCTGCGGGCCGGACG	<u>408</u>
11153	C116T	EF	CGAGTGGGAAGAAAAGTAGA	<u>409</u>
11153	C116T	ER	ATGACTGCCTGCCTAGAA	<u>410</u>
11153	C116T	CR	gggacggtcggtagatAAGATAGGGTAGAGGCCG	<u>411</u>
11153	C116T	TR	gctggctcggtaagaAAGATAGGGTAGAGGCCA	<u>412</u>
11210	C194T	EF	GAGGAGTGAGGGAAAGTAAG	<u>413</u>
11210	C194T	ER	AAATGGAGAGAGATGGGA	<u>414</u>
11210	C194T	CF	gggacggtcggtagatCCAGGAAATGACATGATC	<u>415</u>
11210	C194T	TF	gctggctcggtaagaCCAGGAAATGACATGATT	<u>416</u>
11248	C225T	EF	TGAGTTGAACAGCACTTGG	<u>417</u>
11248	C225T	ER	AGGGTAAGGGAGGGAAAA	<u>418</u>
11248	C225T	CR	gggacggtcggtagatTGATTCTTTCGCTTGGCG	<u>419</u>
11248	C225T	TR	gctggctcggtaagaTGATTCTTTCGCTTGGCA	<u>420</u>
11372	A251G	EF	TAGAAAAGAAGAAAAATCAA	<u>421</u>
11372	A251G	ER	ACACACACACACACACAC	<u>422</u>
11372	A251G	AR	gggacggtcggtagatCATCACCTTTTAGTTTCT	<u>423</u>
11372	A251G	GR	gctggctcggtaagaCATCACCTTTTAGTTTCC	<u>424</u>
11449	C251G	EF	ACAGAAGAACAACAACAAAAC	<u>425</u>
11449	C251G	ER	TGCGTATGAGGTAAAGAGA	<u>426</u>
11449	C251G	CF	gggacggtcggtagatATGAGTGAAGCCTGTCTC	<u>427</u>
11449	C251G	GF	gctggctcggtaagaATGAGTGAAGCCTGTCTG	<u>428</u>
11450	A251T	EF	ACAGAAGAACAACAACAAAAC	<u>429</u>
11450	A251T	ER	TGCGTATGAGGTAAAGAGA	<u>430</u>
11450	A251T	AR	gggacggtcggtagatGGACCATAATCTTGAAGT	<u>431</u>
11450	A251T	TR	gctggctcggtaagaGGACCATAATCTTGAAGA	<u>432</u>
11470	C251T	EF	GCTTGTCTTGTCTGATAGGTG	<u>433</u>
11470	C251T	ER	CAACGTGAGAATTTCCAAAAT	<u>434</u>
11470	C251T	CR	gggacggtcggtagatTGAGAATTTCCAAAATAG	<u>435</u>

baySNP	SNP	NAME	SEQUENCE	SEQ ID No:
11470	C251T	TR	gctggctcggtagaTGAGAATTTCCAAAATAA	<u>436</u>
11472	A251T	EF	TACATTCAAGGCAAGAAAA	<u>437</u>
11472	A251T	ER	TGATTAGTTACAATTACCTCTAGTATC	<u>438</u>
11472	A251T	AF	gggacggctcggtagatAGTTTGTCTAGTAAATGTA	<u>439</u>
11472	A251T	TF	gctggctcggtagaAGTTTGTCTAGTAAATGTT	<u>440</u>
11487	A485T	EF	gacgatgccttcagcacaAGAGAGCAGCTAGACTGAGA	<u>441</u>
11487	A485T	ER	TTCTTGCAAACAGTTGAG	<u>442</u>
11487	A485T	AR	gggacggctcggtagatAGTTGAGGGCTCAGGATT	<u>443</u>
11487	A485T	TR	gctggctcggtagaAGTTGAGGGCTCAGGATA	<u>444</u>
11488	C533G	EF	gacgatgccttcagcacaAGAGAGCAGCTAGACTGAGA	<u>445</u>
11488	C533G	ER	GTAAATAAAATGGGATGGTG	<u>446</u>
11488	C533G	CR	gggacggctcggtagatGCCCCAGCAAGCTGCATG	<u>447</u>
11488	C533G	GR	gctggctcggtagaGCCCCAGCAAGCTGCATC	<u>448</u>
11493	A171G	EF	CCTTTTGTGTTTTGTTTTGT	<u>449</u>
11493	A171G	ER	CTTCTCCACCTTCCATTC	<u>450</u>
11493	A171G	AF	gggacggctcggtagatGGGAACCTCCTAAATCAAA	<u>451</u>
11493	A171G	GF	gctggctcggtagaGGGAACCTCCTAAATCAAG	<u>452</u>
11502	C455T	EF	gacgatgccttcagcacaACGATGGGGTCAGAGTCA	<u>453</u>
11502	C455T	ER	CCTACATTTACACACGAACA	<u>454</u>
11502	C455T	CR	gggacggctcggtagatACACACTCCTCTCTCAAG	<u>455</u>
11502	C455T	TR	gctggctcggtagaACACACTCCTCTCTCAAA	<u>456</u>
11534	G258T	EF	GCCATCGTCTTTCCCT	<u>457</u>
11534	G258T	ER	TCCTCCCTCCTTCTCTCT	<u>458</u>
11534	G258T	GR	gggacggctcggtagatCCTCCACCCACCAGGGCC	<u>459</u>
11534	G258T	TR	gctggctcggtagaCCTCCACCCACCAGGGCA	<u>460</u>
11537	A251G	EF	CCTCTTTCTCCTCCTCTTC	<u>461</u>
11537	A251G	ER	CTCTTCCTGTCTTCTCCTCT	<u>462</u>
11537	A251G	AF	gggacggctcggtagatAGATGGACCTCTACAGGA	<u>463</u>
11537	A251G	GF	gctggctcggtagaAGATGGACCTCTACAGGG	<u>464</u>
11560	A185G	EF	CTCCTCCAACCTCCTTTAC	<u>465</u>
11560	A185G	ER	ATACTTCTCACTGCATCCT	<u>466</u>
11560	A185G	AR	gggacggctcggtagatCCTGTCCCCTCCCTAGTT	<u>467</u>
11560	A185G	GR	gctggctcggtagaCCTGTCCCCTCCCTAGTC	<u>468</u>
11594	C251T	EF	CACCTTCCTGAACTCACTC	<u>469</u>

baySNP	SNP	NAME	SEQUENCE	SEQ ID No:
11594	C251T	ER	TGATGTCTGTGCTGTCCT	<u>470</u>
11594	C251T	CR	gggacggtcggtagatTCTGGTCCACTCAAGGAG	<u>471</u>
11594	C251T	TR	gctggctcggtcaagaTCTGGTCCACTCAAGGAA	<u>472</u>
11624	C251T	EF	TCGGGAGGTGTAAGTAAG	<u>473</u>
11624	C251T	ER	CCACAGTCAGAAGAGACAA	<u>474</u>
11624	C251T	CR	gggacggtcggtagatAGAGACCCTGGTCCCAAG	<u>475</u>
11624	C251T	TR	gctggctcggtcaagaAGAGACCCTGGTCCCAA	<u>476</u>
11627	C251T	EF	TTTATCACTACACCCCCTACTC	<u>477</u>
11627	C251T	ER	GACAGACCGACCAATCAC	<u>478</u>
11627	C251T	CR	gggacggtcggtagatCCCTGGGAAGGTTGAGAG	<u>479</u>
11627	C251T	TR	gctggctcggtcaagaCCCTGGGAAGGTTGAGAA	<u>480</u>
11650	A146G	EF	CTGTCTGTTTGGGTCTTC	<u>481</u>
11650	A146G	ER	CGTTGTTCTCTGTCCACT	<u>482</u>
11650	A146G	AR	gggacggtcggtagatGCCCAAATGTCTAAAAGT	<u>483</u>
11650	A146G	GR	gctggctcggtcaagaGCCCAAATGTCTAAAAGC	<u>484</u>
11654	A251G	EF	CGTATCTCTTGCCTTTCTT	<u>485</u>
11654	A251G	ER	CTTCTCTTATGCCTTCCC	<u>486</u>
11654	A251G	AF	gggacggtcggtagatTACTTGAAAGGACACCA	<u>487</u>
11654	A251G	GF	gctggctcggtcaagaTACTTGAAAGGACACCG	<u>488</u>
11655	A251C	EF	CGTATCTCTTGCCTTTCTT	<u>489</u>
11655	A251C	ER	CTTCTCTTATGCCTTCCC	<u>490</u>
11655	A251C	AF	gggacggtcggtagatTTCTGCACTAAAGCTGTA	<u>491</u>
11655	A251C	CF	gctggctcggtcaagaTTCTGCACTAAAGCTGTC	<u>492</u>
11656	C251T	EF	TGGAAGAAAAAGAGAAG	<u>493</u>
11656	C251T	ER	GTTGAAACACTGCACAAG	<u>494</u>
11656	C251T	CR	gggacggtcggtagatCAGGGCTGTTGGGTGAAG	<u>495</u>
11656	C251T	TR	gctggctcggtcaagaCAGGGCTGTTGGGTGAAA	<u>496</u>
11825	A277G	ER	gacgatgccttcagcacaTGAATAGACAGGGACGAA	<u>497</u>
11825	A277G	EF	GACCTTGGAATAATGGAG	<u>498</u>
11825	A277G	AF	gggacggtcggtagatCAACCCAGCAAAAATGGA	<u>499</u>
11825	A277G	GF	gctggctcggtcaagaCAACCCAGCAAAAATGGG	<u>500</u>
11914	A246T	EF	gacgatgccttcagcacaTTGGAAGTGAGATAAGATAGGT	<u>501</u>
11914	A246T	ER	ACGGTGAGAATGAGAGGT	<u>502</u>
11914	A246T	AR	gggacggtcggtagatAAAACAGACATCAGAGGT	<u>503</u>



baySNP	SNP	NAME	SEQUENCE	SEQ ID No:
11914	A246T	TR	gctggctcggtaagaAAAACAGACATCAGAGGA	<u>504</u>
12097	A411G	ER	gacgatgccttcagcacaGATGAAACCCTGTCTCTACT	<u>505</u>
12097	A411G	EF	TTATCAACCTTAGTCTCCCT	<u>506</u>
12097	A411G	AF	gggacggtcggttagatACCTGCCACCACACCCAA	<u>507</u>
12097	A411G	GF	gctggctcggtaagaACCTGCCACCACACCCAG	<u>508</u>
12366	A412G	ER	gacgatgccttcagcacaGCTGATGTGGTTGTGAG	<u>509</u>
12366	A412G	EF	GTTCTGTAGCTCGTGTAG	<u>510</u>
12366	A412G	AF	gggacggtcggttagatCTCCCCGCCCTGCAGCAA	<u>511</u>
12366	A412G	GF	gctggctcggtaagaCTCCCCGCCCTGCAGCAG	<u>512</u>
12619	A25G	ER	gacgatgccttcagcacaTGGCTGGACTTTGACTGATA	<u>513</u>
12619	A25G	EF	TCTTGTTTGTGTCACAGTGC	<u>514</u>
12619	A25G	AF	gggacggtcggttagatTGTGTCACAGTGCTCTGA	<u>515</u>
12619	A25G	GF	gctggctcggtaagaTGTGTCACAGTGCTCTGG	<u>516</u>
13025	A585C	EF	gacgatgccttcagcacaTTTAAGTAACATGACAAACTC	<u>517</u>
13025	A585C	ER	ATCTGATAACTGAGCAGG	<u>518</u>
13025	A585C	AR	gggacggtcggttagatCTATTAAGTAAGTGGTGT	<u>519</u>
13025	A585C	CR	gctggctcggtaagaCTATTAAGTAAGTGGTGG	<u>520</u>
13191	A504G	ER	gacgatgccttcagcacaATTCTCCATTCTCTCTGT	<u>521</u>
13191	A504G	EF	TGCCTCTTCTCCTCATTC	<u>522</u>
13191	A504G	AF	gggacggtcggttagatCCCTAATGTCTTCCTCTGA	<u>523</u>
13191	A504G	GF	gctggctcggtaagaCCCTAATGTCTTCCTCTGG	<u>524</u>
900045	C116T	EF	ATCTCCTGATCCAAGTCC	<u>525</u>
900045	C116T	ER	CACACTGTGCCCATCTAC	<u>526</u>
900045	C116T	CR	gggacggtcggttagatCTGACTGATTACCTCATG	<u>527</u>
900045	C116T	TR	gctggctcggtaagaCTGACTGATTACCTCATA	<u>528</u>
900078	A251G	EF	CATAGGTAAAGATCTGTAGGTG	<u>529</u>
900078	A251G	ER	CCACCTTGGAAGTTGGCAA	<u>530</u>
900078	A251G	AR	gggacggtcggttagatattaatcgctctctcT	<u>531</u>
900078	A251G	GR	gctggctcggtaagaattaatcgctctctcC	<u>532</u>
900107	C426T	ER	gacgatgccttcagcacaAGGGCTTTTTCAGGTAGA	<u>533</u>
900107	C426T	EF	GACCTTTCCTGGGTAGAA	<u>534</u>
900107	C426T	CF	gggacggtcggttagatACTCTGAACCTGGGGGAC	<u>535</u>
900107	C426T	TF	gctggctcggtaagaACTCTGAACCTGGGGGAT	<u>536</u>
10000002	A103G	AF	gggacggtcggttagatGATCAACACAATCTTCAA	<u>537</u>

baySNP	SNP	NAME	SEQUENCE	SEQ ID No:
10000002	A103G	EF	CAGCTGAAAGAGATGAAATTTACT	<u>538</u>
10000002	A103G	ER	GACGATGCCTTCAGCACAACTTATGAAGATTAAGGCATAGG	<u>539</u>
10000002	A103G	GF	gctggctcggtaagaGATCAACACAATCTTCAG	<u>540</u>
10000006	G107A	AF	gctggctcggtaagaGGGCTGGGCTGCTAGGGA	<u>541</u>
10000006	G107A	EF	AGACGAGTTCAAGGTGAGTG	<u>542</u>
10000006	G107A	ER	GACGATGCCTTCAGCACACCAAGTTCCGAGTTTCC	<u>543</u>
10000006	G107A	GF	gggacggctcgtagatGGGCTGGGCTGCTAGGGG	<u>544</u>
10000014	A153C	AF	gggacggctcgtagatGTACCAATACATCCTGCA	<u>545</u>
10000014	A153C	CF	gctggctcggtaagaGTACCAATACATCCTGCC	<u>546</u>
10000014	A153C	EF	CTGCTGATGTCTCTGTTG	<u>547</u>
10000014	A153C	ER	GACGATGCCTTCAGCACAGACTTACTTTGCTCACACTT	<u>548</u>
10000025	C291T	CF	gggacggctcgtagatCCTCACTTCCTCAACGCC	<u>549</u>
10000025	C291T	EF	CCTCTCTGTCTGGTTATCTTG	<u>550</u>
10000025	C291T	ER	GACGATGCCTTCAGCACAAAGTGTGCCTCCTGGTTAG	<u>551</u>
10000025	C291T	TF	gctggctcggtaagaCCTCACTTCCTCAACGCT	<u>552</u>

Please delete paragraph [0634] and replace it with the following:

**TABLE 2b**

**OLIGONUCLEOTIDE PRIMERS USED FOR GENOTYPING USING PYROSEQUENCING**

[0634] The baySNP number refers to an internal numbering of the PA SNPs. Primer sequences are listed for preamplification of the genomic fragments and for sequencing of the SNP using the pyrosequencing method. Bio: Biotinylated Oligonucleotide.

baySNP	NAME	SEQUENCE	SEQ ID NO:
2995	Primer F	GCCAAGACTAGGAAGTAAGTGT	<u>553</u>
2995	Primer R	Bio-CCCAGAACCACAAAGCTAGTAA	<u>554</u>
2995	Seq.	TGCCCTGGTCACCTCCTTTCC	<u>555</u>
3689	Primer F	BIO-CTGACCCTGACCTTCATACTCAA	<u>556</u>
3689	Primer R	AGAAGAAAGAAGCCTCTCTACAGTT	<u>557</u>
3689	Seq.	AACAGATCAGGTTGGTG	<u>558</u>
4838	Primer F	Bio-CAAAGATGACCTTATGGCTCTGA	<u>559</u>
4838	Primer R	GTCTCGGAACATGACCTTTAGT	<u>560</u>
4838	Seq.	TGACTAAGAATGTAATGGGGAAGA	<u>561</u>

baySNP	NAME	SEQUENCE	SEQ ID NO:
6498	Primer F	CTTTGTGGATCTTTCTGCGGTGT	<u>562</u>
6498	Primer R	Bio-CCATGTTGAGGAGCCCAGAGTGA	<u>563</u>
6498	Seq.	ATTACAGTTGTGAGATTGTGC	<u>564</u>
8021	Primer F	GGCCTTCTATGTACTAGGCG	<u>565</u>
8021	Primer R	Bio-CTCTTTCTGGAGGCATCAATC	<u>566</u>
8021	Seq.	CACAGGGAGACCCC	<u>567</u>
8060	Primer F	Bio-GCCTTATTTTCCACTCCCACCT	<u>568</u>
8060	Primer R	TACCTTTCCCCATCCCAACTG	<u>569</u>
8060	Seq.	TCAGCATATGTTTGGATT	<u>570</u>
8846	Primer F	ATTGAGAGAAGGTAGGGT	<u>571</u>
8846	Primer R	BIO-TTGTTACTCTGTAGCCA	<u>572</u>
8846	Seq.	AAATATTCAGTAACTTGTTT	<u>573</u>
9849	Primer F	AAG CAG CAA TCG AAT CCC TT	<u>574</u>
9849	Primer R	TGT TGT TGT TTG GCT AGC TCC	<u>575</u>
9849	Seq.	CCT GCC TTA CTG AGA GCC AAA	<u>576</u>
10079	Primer F	Bio-CACGCCAATTCCCACCATCCT	<u>577</u>
10079	Primer R	GTCCGTCGAGGGGGAATGTGTTT	<u>578</u>
10079	Seq.	AATGTGTTTCTTGGGGGT	<u>579</u>
10747	Primer F	CTAACCATCTTCCAAATGCTTAATC	<u>580</u>
10747	Primer R	BIO-TCCTTGAGTCTGAGTTTCCC	<u>581</u>
10747	Seq.	CACAAGAAACCCTGAAA	<u>582</u>
11578	Primer F	CTC GGC GTG CTT GGT AAT AA	<u>583</u>
11578	Primer R	CGG AGC CGA ACT CTG GAG GAA TCT	<u>584</u>
11578	Seq.	GGC TGG CAA GTT GTT CCA TCC CAC	<u>585</u>
11644	Primer F	TGA GCA GCG CAT CCT	<u>586</u>
11644	Primer R	TGC AGC CCA CTG ACT CAA	<u>587</u>
11644	Seq.	GCT GTT ACT CAG TAT GAT	<u>588</u>
12008	Primer F	CCGAAGACCAAGACGC	<u>589</u>
12008	Primer R	Bio-TCTTCCATAAAAACAAGGCTC	<u>590</u>
12008	Seq.	AAACAAGAAATTCTGTTTA	<u>591</u>
13937	Primer F	TGA CAG CTC CCA TTG GAA	<u>592</u>
13937	Primer R	AAT TAA TGC GAT CCC TC	<u>593</u>
13937	Seq.	GAC AGC TCC CAT TGG AAG	<u>594</u>
900002	Primer F	ATTGGGCAGGGATAAGAGAAAAG	<u>595</u>

<b>baySNP</b>	<b>NAME</b>	<b>SEQUENCE</b>	<b><u>SEQ ID NO:</u></b>
900002	Primer R	Bio-GATGAATCACAGAATGCGGTAT	<u>596</u>
900002	Seq.	CACACAGCAGTTCACGCA	<u>597</u>
900013	Primer F	GCCAAGACTAGGAAGTAAGTGT	<u>598</u>
900013	Primer R	Bio- CCCAGAACCACAAAGCTAGTAA	<u>599</u>
900013	Seq.	TGCCCTGGTCACCTCCTTTCC	<u>600</u>
900025	Primer F	Bio-AGTGGCTCACTTGCTAACG	<u>601</u>
900025	Primer R	CTGGGGAAGAAAATAAATGAA	<u>602</u>
900025	Seq.	CTTGCTCTTAGGATACACGT	<u>603</u>
900032	Primer F	AGCGTCTTCACCATCTGCT	<u>604</u>
900032	Primer R	Bio-GGGAAGGAGGAAGCCAAACA	<u>605</u>
900032	Seq.	ACATGTCTGATGATACCTGG	<u>606</u>
900045	Primer F	BIO-GCCATGCACGATTTCCC	<u>607</u>
900045	Primer R	CACTGTGCCCATCTACGAG	<u>608</u>
900045	Seq.	GGACCTGACTGATTACCT	<u>609</u>
900065	Primer F	GAGTAGCTAGGATCACAGGTGCGT	<u>610</u>
900065	Primer R	BIO-TGTTGAGATTTAAGAAAGTTGGC	<u>611</u>
900065	Seq.	CAGGTGCGTGCCACCATGCCC	<u>612</u>
900082	Primer F	CAC ACA ATT TTC CAC TTA	<u>613</u>
900082	Primer R	GAC TCC AGT TTT CTA TCA	<u>614</u>
900082	Seq.	ATG TTG ATG TAA TCT ACT	<u>615</u>
900096	Primer F	TGGGGCAAGCAACAGTGGT	<u>616</u>
900096	Primer R	Bio-TAGGCAGGGCAAGGGATTAGG	<u>617</u>
900096	Seq.	TTTAAATTCTCTGACAGAGAC	<u>618</u>
900107	Primer F	BIO-GCCACCAGCCCACACTCTGAACCTG	<u>619</u>
900107	Primer R	CCATCAGCCTTCACCCACGTGCCA	<u>620</u>
900107	Seq.	GCCTCAGCTTGACCT	<u>621</u>
900115	Primer F	Bio-GGTAAGTGCGTGCCTGGGAGATGC	<u>622</u>
900115	Primer R	CGGGGTGGGGAGGACAGAGC	<u>623</u>
900115	Seq.	GAGGACAGAGCAAAAGGAT	<u>624</u>
900121	Primer F	Bio-TGCCTTACAATATACAATGG	<u>625</u>
900121	Primer R	CAATGGGTAAGGAGTAAAGTT	<u>626</u>
900121	Seq.	TTCCAGCTGCTTTTA	<u>627</u>

Please delete paragraph [0635] and replace it with the following rewritten paragraph:

**TABLE 2c**

**OLIGONUCLEOTIDE PRIMERS USED FOR GENOTYPING USING  
RESTRICTION FRAGMENT LENGTH POLYMORPHISM (RFLP)**

[0635] The baySNP number refers to an internal numbering of the PA SNPs. Primer sequences are listed for preamplification of the genomic fragments. The restriction enzyme used for RFPL is indicated.

<b>baySNP</b>	<b>NAME</b>	<b>SEQUENCE</b>	<b>ENZYME</b>	<b><u>SEQ ID NO:</u></b>
900173	Primer F	GAACAAACCTCCGAGATGCTAC	Hind III	<u>628</u>
900173	Primer R	GTCTTATGTTACTGGGCTTTCACC	Hind III	<u>629</u>

Please delete paragraph [0636] and replace it with the following rewritten paragraph:

TABLE 2D

## OLIGONUCLEOTIDE PRIMERS USED FOR GENOTYPING USING TAQMAN

[0636] The baySNP number refers to an internal numbering of the PA SNPs. Primer sequences are listed for amplification of the genomic fragments. In addition the respective fluorescent hybridisation probes are listed. If not otherwise stated, all fluorescent probes have a 'minor groove binder' (MGB) attached (Kutyavin et al., NUCLEIC ACIDS RESEARCH 28:655-661 (2000)).

baySNP	F-SEQUENCE	R-SEQUENCE	VIC-MGB	FAM-MGB
52	CACCCTCTAGAATTCACTATTAAATTTTCAAC (SEQ ID NO: 630)	GGCCTTGAAGAAGATTTTATATTGAGAA (SEQ ID NO: 648)	CTATGCATAGTTTTC	ATGCATAGTTTTCATTAT (SEQ ID NO: 684)
542	TTTCGCTCCATCAACCAAGTC (SEQ ID NO: 631)	GATGGTGATCAGCCGAATC (SEQ ID NO: 649)	CAATTGGATTGGGAGG (SEQ ID NO: 667)	AATTGGGTTGGGAGG (SEQ ID NO: 685)
821	GCCCAGTTATACCTCAGTGTGTAAC (SEQ ID NO: 632)	AGGTCACTACAGAGGGTATCATGAGA (SEQ ID NO: 650)	TGTGATACCTGGAACAG (SEQ ID NO: 668)	CTGTGATACCTGGAACA (SEQ ID NO: 686)
1056	TGTATGCACGTGCGTGATCTG (SEQ ID NO: 633)	CGCCCTCGGCACCTTGG (SEQ ID NO: 651)	CCAAACAACAGGACGG (SEQ ID NO: 669)	AAACAGCAGGACGGG (SEQ ID NO: 687)
1204	CTGTAAGCATCTGGAATTGTCATGA (SEQ ID NO: 634)	GGCTCAGCTTTGATCTTTAGCAAG (SEQ ID NO: 652)	CACACATTAATAATTAG (SEQ ID NO: 670)	ACTCACATTACAATTAGT (SEQ ID NO: 688)
1722	GGACCCCTAAGAACCCCAAGAT (SEQ ID NO: 635)	ATGGCTTAACACAGGAGATGATG (SEQ ID NO: 653)	TGGCCTGGCGTG (SEQ ID NO: 671)	TGGCCTGGCGGATGT (SEQ ID NO: 689)
1757	ACAGGCTGGCAGCCAC (SEQ ID NO: 636)	AGCCTCTGCCCTCTCTCCA (SEQ ID NO: 654)	AACCAAAATGAAGGAGAG (SEQ ID NO: 672)	ACCAAAATGAAGGAGAG (SEQ ID NO: 690)
1765	GGAGCTGTGAGGTATGGGCTT (SEQ ID NO: 637)	TGTCAAGATGCAAGCTGAAGGTC (SEQ ID NO: 655)	ACGGAGGAAGAGT (SEQ ID NO: 673)	ACGGAGGAAGAGT (SEQ ID NO: 691)
1799	TTTGGTGGTGTGCATTGACA (SEQ ID NO: 638)	TGGACATATGGCGGACTCT (SEQ ID NO: 656)	AGTGTGATCaTCACCTTT (SEQ ID NO: 674)	CAGTGTGATCgTCACCT (SEQ ID NO: 692)
1837	CACTCAGCCCTGCTCTTTCC (SEQ ID NO: 639)	CATCCTTGGCGGTCTTGGT (SEQ ID NO: 657)	TGCAGGGTACATGA (SEQ ID NO: 675)	TCATGCAGGGTACAT (SEQ ID NO: 693)
1870	CTGGCTCCTGACCCCTTGCT (SEQ ID NO: 640)	GGAGGATGCCATCTCGAACA (SEQ ID NO: 658)	TGCCTCTTcTCACAC (SEQ ID NO: 676)	CCTCCTTtTCACACCGA (SEQ ID NO: 694)
1988	CCGTGGCTTCATGTTGACT (SEQ ID NO: 641)	CTACCTGTCGGTGCATCATC (SEQ ID NO: 659)	TCCTATAGcGTGGGTGT (SEQ ID NO: 677)	CTATACtGTGGGTGTcAT (SEQ ID NO: 695)
2000	TTCTCACTGTGATATAACTCAGACCC (SEQ ID NO: 642)	CGATGAACAGTTGGAATAGTTGT (SEQ ID NO: 660)	TACTCATcTTCTAATTAC (SEQ ID NO: 678)	CAAAATATCTACTCATtTTC (SEQ ID NO: 696)
2085	TCATTACATCAGGTATATTGCACTGTAA (SEQ ID NO: 643)	TCAGAGACACTGAAGAACTTAAAGAAATC (SEQ ID NO: 661)	TGTTACCAAGAAAGAAA (SEQ ID NO: 679)	TGTTACCAAGAAAGAAA (SEQ ID NO: 697)
2281	GCTGCAATTGAGAGGACTGATC	CGGTTAACTTATAAGAAACCGATGTTTC	CATACCAAGAAACCA	ACCACAAACCCAGGTC

baySNP	F-SEQUENCE (SEQ ID NO: 644)	R-SEQUENCE (SEQ ID NO: 662)	VIC-MGB (SEQ ID NO: 680)	FAM-MGB (SEQ ID NO: 698)
2298	TGCTAGTGTCTTCTGGTTGCATATT (SEQ ID NO: 645)	GGCACGTGTAGACTTGATCTAAA (SEQ ID NO: 663)	TCATGGGCATTCA (SEQ ID NO: 681)	TATCATGGGCTTTCA (SEQ ID NO: 699)
2357	GCGAAGTGTGGACACAAA (SEQ ID NO: 646)	GGTTACGTCTGCTCTTCGATCCT (SEQ ID NO: 664)	AAGACGAAATGATC (SEQ ID NO: 682)	AAGACGAAATGATC (SEQ ID NO: 700)
4838	AAGATGACCTTATGCTCTGAGATG (SEQ ID NO: 647)	TCTCGGAACATGACCTTTAGTCTGT (SEQ ID NO: 665)	AAGAATGCCCTGCCT (SEQ ID NO: 683)	AAGAATGCCCTGCC (SEQ ID NO: 701)
5320	GGGATATATAGTAGAAAAACAAGCCTGTCT (SEQ ID NO: 702)	CAACTTAATCACTACTACTTCCATGTAAAGCA (SEQ ID NO: 717)	AAGGAAAGCTGATG (SEQ ID NO: 732)	AGGAAAGCTGGTATGT (SEQ ID NO: 747)
5717	GGCCGCTCTGGCT (SEQ ID NO: 703)	AACCCACACCTTCAGTCTAGAAA (SEQ ID NO: 718)	Vic-CCACCTCCCTTCTAGCCTCAGTTGC-TAMRA (SEQ ID NO: 733)	Fam-CCACCTCCCTTCTAGCCTCAGTT-Tamra (SEQ ID NO: 748)
5959	ACCAGAAACAAATGCCAACCA (SEQ ID NO: 704)	CAGTGTAAACCAAGGGATGTC (SEQ ID NO: 719)	Vic-CGAATGTGCTGCCCAGCC-TAMRA (SEQ ID NO: 734)	Fam-TCGAATGTGCTGCCCAGCCTC-Tamra (SEQ ID NO: 749)
6482	CATAGTTTAGGATAACAAAGGATTCA (SEQ ID NO: 705)	TGTCATGGAACGCCACAAC (SEQ ID NO: 720)	AACAGATCTGGTCTaCCT (SEQ ID NO: 735)	AGATCTGGTCTgCCTC (SEQ ID NO: 750)
8060	GCATTGGAATGGATGGCCTTATTT (SEQ ID NO: 706)	TGCATGGCATCAGCATATGTT (SEQ ID NO: 721)	CCCACCTGGaGAAT (SEQ ID NO: 736)	TCCCACCTGGgGAA (SEQ ID NO: 751)
8816	CAGCCCTCTGCTCAAG (SEQ ID NO: 707)	TCCCCTCTGTCCAGGC (SEQ ID NO: 722)	TGAGAAAAAGgTCCG (SEQ ID NO: 737)	CTGAGAAAAAGeTTC (SEQ ID NO: 752)
10600	GGTGACGTTTGGCCTCTC (SEQ ID NO: 708)	AAGTTAATCAAGCCTTTTCAATTGG (SEQ ID NO: 723)	TGCTCAGGAGGCC (SEQ ID NO: 738)	TGCTCAGGAGeGCC (SEQ ID NO: 753)
10771	CTGGGCCACCGAGTTAC (SEQ ID NO: 709)	GATCTCTGTGAGTGTGCTCTGT (SEQ ID NO: 724)	AGGAAGGTGGCT (SEQ ID NO: 739)	CAAGGAAGGTGGC (SEQ ID NO: 754)
10948	ACATTCCCTTCCAGCCTT (SEQ ID NO: 710)	GCAGGGCAGAGGGAGGA (SEQ ID NO: 725)	CGCCAGTAATaCAGA (SEQ ID NO: 740)	CCCAGTAATeCAGACAC (SEQ ID NO: 755)
11001	GCCATCCTTGTGAACTGTAA (SEQ ID NO: 711)	ACATGACAGGGCCACTT (SEQ ID NO: 726)	TCGTCCaetGGACGT (SEQ ID NO: 741)	TTCCaITGGACGTCTT (SEQ ID NO: 756)
11073	GAGCAACAGCCGCTGAG (SEQ ID NO: 712)	GCGGAGCTAGAGCAGTG (SEQ ID NO: 727)	TCGGCGTgTTC (SEQ ID NO: 742)	TCTCGCGCTeGT (SEQ ID NO: 757)
11248	GAAAGCTAACTCCCTGACG (SEQ ID NO: 713)	TGAAGGTAAGGGAGGGAAA (SEQ ID NO: 728)	CTTGGCTCCGCTC (SEQ ID NO: 743)	TTGGCaTCGCGTCAG (SEQ ID NO: 758)
11654	AGTTTGTTCCTATTAGAGGTTTCCA (SEQ ID NO: 714)	CTCTTATGCCTTCCCAACA (SEQ ID NO: 729)	TTGAAAGGACCCaTATT (SEQ ID NO: 744)	ACACCGTAJTtTTCAC (SEQ ID NO: 759)
11655	CATATTCAAGAAAGATTATCTCCAATCTT (SEQ ID NO: 715)	TGGAACCTCTAATAGGAAACAAACT (SEQ ID NO: 730)	CACTAAAGCTGTaATATTA (SEQ ID NO: 745)	CTAAAGCTGTcATATTAC (SEQ ID NO: 760)
13191	GAGTTGGTGATATAAACCCCTAA (SEQ ID NO: 716)	CCTGTCCCACTCTCTCTCT (SEQ ID NO: 731)	TCtTCTCTGgTAACA (SEQ ID NO: 746)	TCCTCTCaGTAAACAAC (SEQ ID NO: 761)